

Application No. 10/608,257
Office action dated June 8, 2007
Response dated October 9, 2007

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AMENDMENTS TO THE CLAIMS

Please amend the claims as follows. This listing of claims replaces all prior versions and listings of claims in the application.

1 (currently amended). An ablation catheter comprising:

a catheter shaft, said catheter shaft comprising

a proximal portion; and

a distal portion, said distal portion being adapted to be inserted into a body cavity having tissue to be ablated and being disposed remotely from said proximal portion, said distal portion comprising an outer peripheral wall having an active region, wherein said distal portion has a cross-sectional configuration along said active region, wherein said cross-sectional configuration is adapted to bias said active region against the tissue to be ablated and wherein said cross-sectional configuration of said active region includes a flattened outer peripheral wall;

a fluid lumen including at least one porthole located in the distal portion; and

a porous material disposed within the fluid lumen covering the at least one porthole, the porous material having a pore size configured to achieve a desired flow rate for a fluid flowing through the at least one porthole.

2 (cancelled).

3 (withdrawn). The ablation catheter of claim 1, wherein said cross-sectional configuration of said active region is rectangular.

4 (withdrawn). The ablation catheter of claim 1, wherein said cross-sectional configuration of said active region is elliptical.

5 (previously presented). The ablation catheter of claim 1, wherein said cross-sectional configuration of said active region is a polygonal configuration.

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6 (original). The ablation catheter of claim 5, wherein said polygonal configuration is selected from the group consisting of a D-shaped configuration, a triangular configuration, and a rectangular configuration.

7 (previously presented). The ablation catheter of claim 1, wherein said cross-sectional configuration of said active region is a D-shaped configuration having an aspect ratio of at least 1.5:1.

8 (currently amended). A catheter for diagnosing and treating tissue, the catheter comprising

a catheter shaft having a proximal portion and a distal portion, wherein said distal portion comprises

an active region having a longitudinal axis; and

at least one lumen adapted to carry wires, optical fibers, and fluids for a variety of functional purposes, the lumen including at least one porthole;

a porous material disposed within the lumen covering the at least one porthole, a pore size of the porous material configured to restrict a flow rate of a fluid through the at least one porthole,

and wherein said distal portion has a cross-sectional configuration having an outer periphery that is asymmetric about at least one plane containing said longitudinal axis of said active region.

9 (original). The catheter of claim 8, wherein said distal portion is curved.

10 (withdrawn). The catheter of claim 8, wherein said distal portion is straight

11 (original). The catheter of claim 8, wherein said cross-sectional configuration of said distal portion defines a flattened outer peripheral wall that is adapted to be oriented against the tissue.

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12 (original). The catheter of claim 11, wherein said cross-sectional portion of said distal portion is a polygon.

13 (withdrawn). The catheter of claim 12, wherein said cross-sectional portion of said distal portion is triangular.

14 (original). The catheter of claim 12 or 13, wherein said active region includes a plurality of portholes through said flattened outer peripheral wall.

15 (original). The catheter of claim 11, wherein said cross-sectional configuration is a D-shaped cross-sectional configuration.

16 (original). The catheter of claim 15, wherein said D-shaped cross-sectional configuration has an aspect ratio of at least 1.5:1.

17 (original). The catheter of claim 15, wherein said D-shaped cross-sectional configuration has an aspect ratio of at least 2.2:1.

18 (original). The catheter of claim 15, wherein said active region includes a plurality of portholes through said flattened outer peripheral wall.

19 (cancelled).

20 (new). The ablation catheter of claim 1, wherein the pore size is between about 10 micrometers and about 50 micrometers.